

IN THE CLAIMS:

1. (Currently Amended): A method for extending the capabilities of a web server, comprising the steps of:

 sending a request from a client to the web server, the request identifying requested content and including an address addresses for a plurality of code module modules needed to service the request;

 if ~~the~~ a given code module is unavailable at the web server, having the web server use ~~the~~ a corresponding address to request the given code module from a publishing server;

 installing the given code module at the web server;

receiving the requested content at the web server; and

performing the request at the web server using applying the installed plurality of code module modules sequentially to the requested content.

2. (Currently Amended): The method as described in Claim 1 further including the step of serving the given code module from the publishing server to the web server.

3. (Currently Amended): The method as described in Claim 1 wherein the corresponding address is a URL.

4. (Currently Amended): The method as described in Claim 1 wherein the given code module is unavailable to the web server because the web server does not support the given code module.

5. (Currently Amended): The method as described in Claim 1 wherein the given code module is unavailable to the web server because the server cannot access the given code module.

6. (Currently Amended): The method as described in Claim 1 wherein the request includes a unique identifier for ~~the~~ each code module within the plurality of code modules.

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7. (Currently Amended): The method as described in Claim 1 wherein ~~the~~ each code module within the plurality of code modules conforms to a specific transformation API of the web server.

8. (Currently Amended): The method as described in Claim 1 further including the steps of:

having the publishing server sign the given code module with a key;
serving the signed code module from the publishing server to the web server; and
verifying authenticity of the signed code module prior to the installing step.

9. (Previously Amended): A method for enabling a web client to add functionality to a web server on an as-needed basis, comprising the steps of:

receiving a request from a client, the request identifying a code module required to process the request;

responsive to a determination that the code module is not available at the web server, uploading a code module from the client to the web server; and

at the web server, using the uploaded code module as needed to service a given request from the web client.

10. (Original): The method as described in Claim 9 wherein the web client is a pervasive computing client.

11. (Original): The method as described in Claim 10 wherein the code module translates data into a given proprietary format and serves the translated data back to the pervasive computing client.

12. (Original): The method as described in Claim 9 wherein the code module conforms to a given application programming interface (API).

13. (Currently Amended): A method operative at a web server in a computer network, comprising the steps of:

receiving a request from a client, the request identifying requested content, a plurality of code module modules, and ~~including~~ an address for ~~the~~ each code module within the plurality of code modules;

B1 if ~~the~~ a given code module within the plurality of code modules is unavailable at the web server, using ~~the~~ a corresponding address to request the given code module from a given location in the computer network;

installing the given code module at the web server;

receiving the requested content at the web server;

using the ~~installed~~ plurality of code module modules sequentially to process the ~~request~~ requested content to form transformed content; and

~~serving a response to the request~~ the transformed content back to the client.

14. (Currently Amended): The method as described in Claim 13 further including the step of authenticating the given code module prior to the installing step.

15. (Original): The method as described in Claim 14 wherein the given location is a publishing server.

16. (Original): The method as described in Claim 15 wherein the step of authenticating includes applying a given key to information retrieved from the publishing server.

17. (Currently Amended): A computer program product in a computer usable medium operative in a web server, comprising:

means for receiving a request from a client, the request identifying requested content, a plurality of code module modules, and an address for ~~the~~ each code module within the plurality of code modules;

means responsive to a determination that ~~the~~ a given code module is not available at the web server for using ~~the~~ a corresponding address to request the given code module from a given location in the computer network; and

means responsive to receipt of the given code module from the given location for installing the given code module at the web server for use in responding to the request;

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means for receiving the requested content at the web server;
means for using the plurality of code modules sequentially to process the
requested content to form transformed content; and
means for serving the transformed content back to the client.

18. (Currently Amended): The computer program product as described in Claim 17 further including means for authenticating the given code module.

19. (Canceled)

20. (Previously Amended): A computer program product in a computer usable medium operative in a web server, comprising:

means for receiving a request from a client, the request identifying a code module required to process the request;

means responsive to a determination that the code module is not available at the web server for requesting the client to upload the code module; and

means responsive to receipt of the code module from the client for installing the code module at the web server for use in responding to the request.

21. (Original): The compute program product as described in Claim 20 further including means for authenticating the code module.

22. (Original): The computer program product as described in Claim 20 further including means for executing the code module to respond to the request.

23. (Currently Amended): A web server operative in a computer network, comprising:

means for receiving a request from a client, the request identifying requested content, a plurality of code module modules, and an address for the each code module within the plurality of code modules;

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means responsive to a determination that ~~the~~ a given code module is not available at the web server for using ~~the~~ a corresponding address to request the given code module from a given location in the computer network;

means responsive to receipt of the given code module from the given location for installing the given code module at the web server for use in responding to the request;

receiving the requested content; and

means for ~~executing~~ applying the plurality of code module modules sequentially on the requested content to respond to the request.

24. (Currently Amended): The web server as described in Claim 23 further including means for authenticating the given code module.

25. (Currently Amended): The web server as described in Claim 23 wherein ~~the~~ each code module within the plurality of code modules is written to conform to a server API.

26. (Currently Amended): The web server as described in Claim 25 wherein ~~the~~ each code module within the plurality of code modules is written in Java.

27. (Original): The web server as described in Claim 23 further including means for deleting a code module from the server upon a given occurrence.

28. (Currently Amended): In a client-server computer network, the improvement comprising:

a web client having means for identifying a plurality of code module modules required to process a client request;

a publishing server supporting ~~the~~ a given code module at a given URL;

a web server, comprising:

means responsive to receipt of a request ~~form~~ from the web client for identifying requested content, the a plurality of code module modules, and the a URL for ~~the~~ each code module within the plurality of code modules;

means responsive to a determination that ~~the~~ a given code module is not available at the web server for using ~~the~~ a corresponding URL to request the given code module from the publishing server;

B1 means responsive to receipt of the given code module from the publishing server for installing the given code module;

means for receiving the requested content;

means operative during a web transaction for ~~executing~~ applying the plurality of code module modules sequentially to the requested content to respond to the request to form transformed content; and

means for serving ~~data~~ the transformed content back to the web client ~~following processing by the code module.~~

29. (Original): In the client-server computer network as described in Claim 28 wherein the web client is a pervasive computing client.